

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/683,238
Filed : 12/05/2001
Inventor(s) : James G. Shanahan et al.
Docket No. : A1320-US-NP
Confirmation No. : 8310
Examiner : Laurie Anne Ries
Art Unit : 2176
Title : META-DOCUMENT MANAGEMENT SYSTEM
WITH PERSONALITY IDENTIFIERS
Customer No. : 25453

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Commissioner for Patents
P.O. Box 1450
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AMENDMENT

Sir:

In response to the FINAL Office Action of **January 17, 2006** and Advisory Action of March 30, 2006, please amend the above-identified application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks begin on page **8** of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Currently Amended)** A method for enriching document content, comprising:

recording from an electronic identification tag storing a digitally readable identifier of a personality identifier using a reader that includes a transmitter and receiver for communicating with the electronic identification tag;

recording context information with the reader when the personality identifier is recorded; the recorded context information recorded with the reader including time information which time information includes information identifying what time of year the personality identifier is recorded by the reader;

identifying document content with the reader using the recorded context information;

transmitting from the reader the identified document content and the recorded personality identifier to a meta-document server;

associating at the meta-document server the personality identifier with a personality in a database of personalities;

enriching at the meta-document server the identified document content using a set of document service requests identifying enrichment themes that are defined by the associated personality; and

making at the meta-document server the enriched document content available;

wherein said enriching recognizes and annotates entities in the identified document content related to the enrichment theme of the associated personality;

wherein the recorded context information is used to assign different personality identifiers depending on what time of year the personality identifier is recorded by the reader.

2. **(Currently Amended)** The method according to claim 1, further comprising transmitting the recorded personality identifier and context information to a meta-document server; wherein the meta-document server identifies the document content, associates the identified document content with the personality identifier, and enriches the document content.

3. (Original) The method according to claim 2, wherein the meta-document server upon identification of the document content:

associates the personality identifier with identified document content;

recognizes, with at least a first method, an entity in the document content;

accesses, with at least a second method, a document service using the recognized entity;

annotates the identified document content with output from the document service to define enriched document content; and

makes the enriched document content available to a set of one or more users.

4. (Previously Presented) The method according to claim 1, wherein said recording records the digitally readable identifier from an electronic tag with an electronic tag reader.

5. (Previously Presented) The method according to claim 1, wherein said recording records the digitally readable identifier from embedded data recorded on a hardcopy document with a scanner.

6. (Previously Presented) The method according to claim 1, wherein the digitally readable identifier is recorded with a mobile computing device that transmits document tokens with the personality identifier to the meta-document server.

7. (Canceled)

8. (Previously Presented) The method according to claim 1, wherein the recorded context information further comprises position information.

9. (Previously Presented) The method according to claim 8, wherein the recorded context information is one of a timestamp that records when the recording took place and a position identifier that identifies a position of a physical object.

10. (Original) The method according to claim 1, further comprising providing notification that the enriched document content is available.

11. **(Currently Amended)** A system for enriching document content, comprising:

an electronic identification tag storing a digitally readable identifier of a personality identifier;

a reader that includes a transmitter and receiver for communicating with the electronic identification tag for recording the personality identifier; the reader recording context information when the personality identifier is recorded and identifying document content using the recorded context information; and

a meta-document server for receiving from the reader the recorded personality identifier and the identified document content, associating the personality identifier with a personality in a database of personalities, enriching the identified document content using a set of document service requests identifying enrichment themes that are defined by the associated personality, and making the enriched document content available;

wherein the meta-document server recognizes and annotates entities in the identified document content related to the enrichment theme of the associated personality;

wherein the context information recorded with the reader includes time information which time information includes information identifying what time of year the personality identifier is recorded by the reader;

wherein the recorded context information is used to assign different personality identifiers depending on what time of year the personality identifier is recorded by the reader.

12. (Previously Presented) The system according to claim 11, wherein the reader is an electronic tag reader that records the digitally readable identifier from an electronic tag.

13. (Previously Presented) The system according to claim 11, wherein the reader is a scanner that records the digitally readable identifier from embedded data recorded on a hardcopy document.

14. (Previously Presented) The system according to claim 11, wherein the reader is a mobile computing device that transmits document tokens with the personality identifier to the meta-document server.

15. (Canceled)

16. (Previously Presented) The system according to claim 17, wherein the recorded context information is one of a timestamp that records when the recording took place and a position identifier that identifies a position of a physical object.

17. (Previously Presented) The system according to claim 11, wherein the recorded context information is one of position information and time information.

18. (Previously Presented) The system according to claim 14, wherein the

mobile computing device identifies position coordinates where the personality identifier is recorded.

Claims 19 – 20 (Canceled).

21. **(Currently Amended)** An article of manufacture for enriching document content, the article of manufacture comprising computer usable media including computer readable instructions embedded therein that causes a plurality of computers to perform a method, wherein the method comprises:

recording from an electronic identification tag storing a digitally readable identifier of a personality identifier using a reader that includes a transmitter and receiver for communicating with the electronic identification tag;

recording context information with the reader when the personality identifier is recorded; the recorded context information recorded with the reader including time information which time information includes information identifying what time of year the personality identifier is recorded by the reader;

identifying document content with the reader using the recorded context information;

transmitting from the reader the identified document content and the recorded personality identifier to a meta-document server;

associating at the meta-document server the personality identifier with a personality in a database of personalities;

enriching at the meta-document server the identified document content using a set of document service requests identifying enrichment themes that are defined by the associated personality; and

making at the meta-document server the enriched document content available;

wherein said enriching recognizes and annotates entities in the identified document content related to the enrichment theme of the associated personality;

wherein the recorded context information is used to assign different

personality identifiers depending on what time of year the personality identifier is recorded by the reader.

22. **(Currently Amended)** The article of manufacture according to claim 21, wherein the method further comprises:

transmitting the recorded personality identifier and context information to a meta-document server;

wherein the meta-document server identifies the document content, associates the identified document content with the personality identifier, and enriches the document content.

wherein the meta-document server upon identification of the document content:

associates the personality identifier with identified document content;

recognizes, with at least a first method, an entity in the document content;

accesses, with at least a second method, a document service using the recognized entity;

annotates the identified document content with output from the document service to define enriched document content; and

makes the enriched document content available to a set of one or more users.

23. (Previously Presented) The article of manufacture according to claim 21, wherein the recorded context information is one of position information and time information.

24. (Previously Presented) The article of manufacture according to claim 23, wherein the recorded context information is one of a timestamp that records when the recording took place and a position identifier that identifies a position of a physical object.

REMARKS

The FINAL Office Action of January 17, 2006 and Advisory Action of March 30, 2006 has been carefully considered. Reconsideration of this application, as amended, is respectfully requested. Claims 1-6, 8-14, 16-18 and 21-24 are pending in this application. Of these, claims 1, 11, and 21 are independent claims.

An Amendment faxed March 3, 2005 amended claims 1, 4-7, 9, 11-18, canceled claims 19-20, and added claims 21-22. An Amendment faxed July 5, 2005 amended claims 1, 11, and 21, canceled claims 7 and 15, and added claims 23 and 24. An Amendment faxed November 8, 2005 amended claims 1, 2, 8, 11, 21, and 22.

This Amendment amends claims 1, 2, 11, 21, and 22. Claims 1, 11, and 21 were amended to add clarifying amendments discussed in more detail below. Support for these amendments is found in Applicant's specification in paragraphs 0156-0180. Accordingly, no new matter is believed to be added by these amendments.

1. Response to Rejection Under 35 USC 103(a)

The Office Action, beginning on page 4, rejects claims 1-3, 11, and 21-22 under 35 USC 103(a) as being unpatentable over Horowitz et al., U.S. Patent No. 6,122,647 (hereinafter referred to as Horowitz '647) in view of Horowitz et al., U.S. Patent No. 6,236,987 (hereinafter referred to as Horowitz '987) and Mockus, "A Web-Based Approach to Interactive Visualization in Context" (hereinafter referred to as Mockus).

Further, the Advisory Action on page 2, paragraph 2, set forth that (emphasis added):

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., that the use of "context" as recited in claim 1 concerns information related to the "time a personality identifier is recorded by the reader, which "time" is used in assigning different personality identifiers to a document depending on what time of year the personality identifier is recorded by the reader) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

In response thereto and for the avoidance of any doubt, Applicant has amended independent claims 1, 11, and 21 to specifically recite that context information includes time information identifying what time of year a personality identifier is recorded by a reader. In view of these claim amendments that are set forth herein, Applicant respectfully submits the following remarks in which claim 1 is discussed as the representative claim, which incorporates herein by reference remarks regarding Horowitz '647, Horowitz '987 and Mockus set forth on pages 8-9 of the Amendment faxed November 8, 2005.

Applicant's invention recited in claim 1 concerns a method for enriching document content. The method, which is described in Applicant's specification in paragraphs 0156-0180, includes recording with a reader a digitally readable identifier of a personality identifier, together with context information when the personality identifier is recorded. Further, the claimed method provides that the personality identifier is associated with a personality in a database of personalities. In addition, the claimed method provides that document content identified using the recorded context information is enriched with the associated personality that defines a set of document service requests identifying enrichment themes, in which recorded context information is used to assign different personality identifiers depending on the time of year the personality identifier is recorded by the reader.

The Office Action indicates on page 4, lines 15-18 "Horowitz '647 does not disclose expressly including a personality ID that is associated with the recorded context information recorded by a reader and used to assign different personality identifiers depending on what time of year the reader records the personality identifier", yet Mocus discloses "embedding contextual data into an interactive document".

Applicant respectfully submits that the use of "context" in Mocus is not used as claimed by Applicant. Mocus describes in section 2.1 on page 182 that "context" refers to the access to information (e.g., data) in the context of the discussion presented. The NASCAR example in section 5 on pages 183-186 illustrate the use of visualization components to manipulate data in a document in context (e.g., by using the visualization components to restrict the content of a table of data to a subset of the data to prove an assertion). In the NASCAR example, readers of a document may restrict data to identify those drivers with no wins to study how high a

driver may reach in the standings without the benefit of a win (see Mocus page 184, top of column 2).

In contrast, Applicant's claim 1 recites that context information that is recorded with a reader when a personality identifier is used: (a) for identifying document content with the reader, and (b) for assigning different personality identifiers depending on what time of year the personality identifier is recorded by the reader. Applicant respectfully submits that Applicant's use of "context" as recited in claim 1 concerns information related to the "time" a personality identifier is recorded with a reader, which "time" is used in assigning different personality identifiers to a document depending on what time of year the personality identifier is recorded by the reader.

Further, in response to the Office Action's comments on page 6, lines 2-3 and on page 13, line 16, relating to "time of year", Applicant respectfully submits that Mockus concerns the manipulation of data using visualization components in a document to tailor information presented in the document as discussed above (e.g., *NASCAR race data may be manipulated within a document to present different NASCAR race data that varies as a function of time of year using embedded visualization components*), which unlike Applicant's use of "time of year" refers to context information recorded with a reader when a personality identifier is recorded by the reader, which context information is used to identify document content with the reader and to assign different personality identifiers depending on the time of year a personality identifier is recorded by a reader, as recited in Applicant's independent claim 1 (e.g., *context information recorded with a reader, which also records a digitally readable identifier associated with a NASCAR race personality identifier, is used to assign different personality identifiers depending on what time of year the NASCAR race personality identifier is recorded with the reader*).

Accordingly, Applicant respectfully submits that Horowitz '987 taken singly or in combination with Horowitz '647 and/or Mockus fail to disclose or suggest using recorded context information as claimed by Applicant in independent claim 1. Insofar as independent claims 11 and 21 are concerned, these claims are believed to be allowable for those reasons set forth above with regard to claim 1 as these claims contain the same or very similar limitations to those discussed above with respect to claim 1. Insofar as claims 2, 3, and 22 are concerned, these claims depend from one

of now presumably allowable independent claims 1 and 21 and are also believed to be in allowable condition.

In addition, reconsideration and withdrawal of the rejections recited below under 35 U.S.C 103 of claims 4-6, 8-10, 12-14, 16-18, and 23-24 because each depends from one of now presumably allowable claims 1, 11, and 21 which are clearly patentable for the reasons set forth above:

A) the Office Action, beginning on page 8, rejects claims **4-6 and 12-14** under 35 USC 103(a) as being unpatentable over Horowitz '647 in view of Horowitz '987 and Mockus, as applied to claims 1 and 11, and further in view of Wang et al., U.S. Patent Publication 2002/0023215 (hereinafter referred to as Wang);

B) the Office Action, starting on page 9, rejects claims **8-9, 16-17, and 23-24** under 35 USC 103(a) as being unpatentable over Horowitz '647 in view of Horowitz '987 and Mockus, as applied to claims 1, 14 and 17, and further in view of Goodisman et al., U.S. Patent Application Publication 2002/0069223 (hereinafter referred to as Goodisman);

C) the Office Action, on page 11, rejects claim **10** under 35 USC 103(a) as being unpatentable over Horowitz '647 in view of Horowitz '987 and Mockus, as applied to claim 1, and further in view of Keith Jr., U.S. Patent Application Publication 2002/0032672;

D) the Office Action, starting on page 12, rejects claim **18** under 35 USC 103(a) as being unpatentable over Horowitz '647 in view of Horowitz '987 and Mockus, and Wang, as applied to claim 14, and further in view of Goodisman.

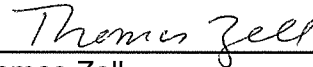
2. Fee Authorization And Extension Of Time

No additional fee is believed to be required for this amendment or response, however, the undersigned Xerox Corporation attorney hereby authorizes the charging of any necessary fees, other than the issue fee, to Xerox Corporation Deposit Account No. 24-0025. This also constitutes a request for any needed extension of time and authorization to charge all fees therefor to Xerox Corporation Deposit Account No. 24-0025.

3. Conclusion

In view of the foregoing remarks, reconsideration of this application and allowance thereof are earnestly solicited. In the event the Examiner considers a personal contact advantageous to the disposition of this case, the Examiner is hereby requested to call Attorney for Applicant(s), Thomas Zell.

Respectfully submitted,

A handwritten signature in cursive script that reads "Thomas Zell". The signature is written in dark ink and is positioned above a horizontal line.

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